In the Claims

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicant has submitted a new complete claim set showing the claims as

pending and no amendments are requested at this time.

1. (Previously Presented) A method for a mobile computing device to make

authentication information available to a base computing device, the method

comprising:

creating authentication information, the authentication information including

content data that include data for updating a care-of address of the mobile computing

device, a public key of the mobile computing device, a network address of the mobile

computing device, and a digital signature, the network address having a portion derived

from the public key of the mobile computing device, the digital signature generated by

signing with a private key of the mobile computing device corresponding to the public

key, the digital signature generated from data in the set: the content data, a hash value

of data including the content data; and

making the authentication information available to the base computing device.

2. (Previously Presented) A method as in claim 1 wherein the authentication

information is made available to the base computing device by sending a message

incorporating the authentication information to the base computing device.

3. (Canceled)

4. (Canceled)

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5. (Previously Presented) A method as in claim 1, wherein the base computing

device is a home agent for the mobile computing device, and wherein the network

address of the mobile computing device is a home address of the mobile computing

device.

6. (Previously Presented) A method as in claim 1, wherein the base computing

device is a correspondent of the mobile computing device, and wherein the network

address of the mobile computing device is a home address of the mobile computing

device.

7. (Original) A method as in claim 1, wherein the public key and the private key

together form an uncertified key pair.

8. (Previously Presented) A method as in claim 1, wherein the network address

of the mobile computing device includes a route prefix portion and a node-selectable

portion, and the node-selectable portion includes a portion of a hash value of data

including the public key of the mobile computing device.

9. (Previously Presented) A method as in claim 8, wherein the node-selectable

portion includes a portion of a hash value of data including the public key of the mobile

computing device and a modifier selected for preventing address conflicts.

10. (Original) A method as in claim 1, wherein the authentication information

further includes data for preventing a replay attack.

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11. (Original) A method as in claim 10, wherein the data for preventing a replay attack are in the set: time stamp, data identifying the second computing device as an

intended recipient of the authentication information.

12. (Previously Presented) A computer-readable medium containing instructions

for performing a method for a first computing device to make authentication

information available to a second computing device, the method comprising:

creating authentication information, the authentication information including

content data that include data for updating a care-of address of the first computing

device, a public key of the first computing device, a network address of the first

computing device, and a digital signature, the network address having a portion derived

from the public key of the first computing device, the digital signature generated by

signing with a private key of the first computing device corresponding to the public key,

the digital signature generated from data in the set: the content data, a hash value of

data including the content data; and

making the authentication information available to the second computing device.

13. (Previously Presented) A computer-readable medium having stored thereon

a data structure, the data structure comprising:

content data that include data for updating a care-of address of a computing

device;

a public key of the computing device;

a network address of the computing device, the network address having a

portion derived from the public key of the computing device; and

a digital signature, the digital signature generated by signing with a private key

of the computing device corresponding to the public key, the digital signature generated

from data in the set: the content data, a hash value of data including the content data.

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14. (Canceled)

15. (Canceled)

16. (Previously Presented) A data structure as in claim 13, wherein the network

address of the computing device is a home address of the computing device.

17. (Original) A data structure as in claim 13, wherein the network address of

the computing device includes a route prefix portion and a node-selectable portion, and

the node-selectable portion includes a portion of a hash value of data including the

public key of the computing device.

18. (Original) A data structure as in claim 17, wherein the node-selectable

portion includes a portion of a hash value of data including the public key of the

computing device and a modifier selected for preventing address conflicts.

19. (Original) A data structure as in claim 13, wherein the data structure further

includes data for preventing a replay attack.

20. (Original) A method for a second computing device to authenticate content

data made available by a first computing device, the method comprising:

accessing authentication information made available by the first computing

device, the authentication information including the content data, a public key of the

first computing device, a first network address of the first computing device, and a

digital signature;

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deriving a portion of a second network address from the public key of the first

computing device;

validating the digital signature by using the public key of the first computing

device;

accepting the content data if the derived portion of the second network address

matches a corresponding portion of the first network address and if the validating

shows that the digital signature was generated from data in the set: the content data, a

hash value of data including the content data.

21. (Original) A method as in claim 20, further comprising:

determining whether to accept the content data based on a time stamp in the

authentication information.

22. (Original) A method as in claim 20, wherein the content data include data for

updating a communications parameter for the first computing device, the method

further comprising:

updating a record of a communications parameter for the first computing device.

23. (Original) A method as in claim 22, wherein the communications parameter

is a care-of address of the first computing device, and wherein updating includes

updating a routing table maintained by the second computing device.

24. (Original) A method as in claim 20, wherein the authentication information

further includes a modifier, and wherein deriving includes appending the modifier to the

public key of the first computing device before deriving a portion of the second network

address.

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25. (Original) A computer-readable medium containing instructions for

performing a method for a second computing device to authenticate content data made

available by a first computing device, the method comprising:

accessing authentication information made available by the first computing

device, the authentication information including the content data, a public key of the

first computing device, a first network address of the first computing device, and a

digital signature;

deriving a portion of a second network address from the public key of the first

computing device;

validating the digital signature by using the public key of the first computing

device;

accepting the content data if the derived portion of the second network address

matches a corresponding portion of the first network address and if the

validating shows that the digital signature was generated from data in the set:

the content data, a hash value of data including the content data.

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